ABSTRACT

A transmitter section converts a transmission symbol to a half symbol and conducts communication in such a state that a predetermined power difference is given between even-numbered subcarriers and odd-numbered subcarriers. A receiver section conducts Fourier transform on a received symbol, demodulates data assigned to the subcarriers, on the other hand, conducts inverse Fourier transform on the demodulated data, generates a first symbol corresponding to even-numbered subcarriers, removes the first symbol component from the received symbol, generates a second symbol corresponding to odd-numbered subcarriers, conducts Fourier transform on the second symbol, and demodulates data assigned to the subcarriers.